PRODUCT COMPONENT

DEFINITION	
Name	Microsoft Message Queuing Services (MSMQ)
Description	Microsoft Message Queuing Services (MSMQ) enables applications running at different times to communicate across heterogeneous networks and systems that may be temporarily offline. As such, it allows many ways of sending and receiving messages. MSMQ is evolving into Message Queuing (code named "MSMQ-T"), a feature in Microsoft BizTalk® Server 2004. BizTalk Server 2004 includes Message Queuing, an adapter for MSMQ that enables high-performance interoperability between MSMQ applications and BizTalk Server. "Message Queuing" refers to this adapter, not a general-purpose reliable messaging technology. Message Queuing is used to integrate an MSMQ application with BizTalk Server 2004. For example, if an integration application uses BizTalk Server to orchestrate incoming Web services requests with an existing MSMQ application, BizTalk Server is leveraged for format and transport modification.
Rationale	Many distributed applications need the ability to handle delays between a request and a response. This is because all the steps in a distributed application process may not need to be, or cannot be, completed at one time. Message queuing allows applications to use components that communicate with one another using queued messages. Like e-mail messages that sit in an inbox, messages can exist on dissimilar systems that may not even be directly connected to each another. Message queuing therefore provides Missouri agencies with a viable mechanism for communicating across disparate applications in an offline mode.
Benefits	• Enables applications running at different times to communicate across heterogeneous networks and systems that may be temporarily offline. • Provides guaranteed message delivery, efficient routing, security, and priority-based messaging.

ASSOCIATED ARCHITECTURE LEVELS	
Specify the Domain Name	Interoperability
Specify the Discipline Name	Application Interoperability
Specify the name of the associated Technology Area	Message Oriented Middleware

KEYWORDS	
List Keywords	Messaging, message queue, queuing

VENDOR INFORMATION			
Vendor Name	Microsoft	*Website*	www.microsoft.com
Contact Information	See Web site.		

POTENTIAL COMPLIANCE SOURCES			
Name	MSMQ Best Practices	*Website*	http://www.microsoft.com/windows2000/technologies/communications/msmq/wp_bestpractices.asp
Contact Information	See Web site.		
Name		*Website*	
Contact Information			

COMPONENT REVIEW	
List Desirable aspects	• Can be used to implement solutions to both asynchronous and synchronous scenarios requiring high performance. • Applications can be developed using C++ application programming interfaces (APIs) or Component Object Model (COM) objects, and applications can be built in any of the popular development environments, for example, Microsoft Visual Basic®, Visual Basic Scripting Edition, Visual C++®, Visual Studio® .NET, Borland Delphi, and Powersoft Powerbuilder. This allows applications to be developed for the Internet as well, including both server-side, such as Internet Information Server, and client-side, such as Internet Explorer, applications. • The .NET Framework offers a set of managed Message Queuing objects. When to use MSMQ: • When you have disconnected users • When guaranteed delivery is important • When you need concurrent execution • When you need to log activity
List Undesirable aspects	• MSMQ is a Windows-only Messaging product. • It doesn't have any native support for JMS (Java Messaging Service) and you would need a JMS-Bridge to get JMS Clients to communicate with the MSMQ broker. • Using MSMQ or MQ Series may impede reusability.
Operating System	MS Products *Platform*

ASSOCIATED COMPLIANCE COMPONENTS	
Product	
List the Product-specific Compliance Component Names	N/A
Configuration Links	
List the Configuration-specific Compliance Component Names	N/A

COMPONENT CLASSIFICATION			
Provide the Classification	☐ *Emerging*	☒ *Current*	☐ *Twilight*	☐ *Sunset*
Sunset Date			

COMPONENT SUB-CLASSIFICATION		
Sub-Classification	Date	Additional Sub-Classification Information
☐ *Technology Watch*		
☐ *Variance*		
☐ *Conditional Use*		

RATIONALE FOR COMPONENT CLASSIFICATION	
Document the Rationale for Component Classification	

MIGRATION STRATEGY	
Document the Migration Strategy	

IMPACT POSITION STATEMENT	
Document the Position Statement on Impact	

AGENCIES	
List the Agencies Currently Utilizing this Product	DMH

CURRENT STATUS				
Provide the Current Status	☐ *In Development*	☐ *Under Review*	☒ *Approved*	☐ *Rejected*

AUDIT TRAIL			
Creation Date	06-22-05	*Date Approved / Rejected*	10/11/05
Reason for Rejection			
Last Date Reviewed		*Last Date Updated*	
Reason for Update			